

Date: _____

Grade 7: Math

5.2 Stem and Leaf Plot

- Numerical data can be represented using stem and leaf plots.
 - All except the last digit is written on the left column the last digit is written on the right.
1. Use stem and leaf plot to organize the numbers below.

34, 23, 56, 25, 27, 15, 6, 34, 65, 22, 23, 89, 90, 21

Stem	Leaf

2. Use stem and leaf plot to organize the numbers below.

2, 4, 6, 7, 8, 12, 15, 19, 14, 2, 5, 11, 15, 29, 30, 31, 3

Stem	Leaf

- **Definition: Range** of a data is the difference between the smallest and largest value in the collection.
- **Definition: Median** is the **middle value** when the data is arranged in ascending (smallest to biggest).
- **Definition: Mode** is the **most recurring number** or the number that appears the most number of times.

3. Determine the median and mode of the following numbers.

a) 12, 15, 5, 19, 8, 14, 17, 12, 6

b) 87, 82, 59, 75, 68, 62, 75, 82, 66, 71, 58, 73, 83

c) 150, 152, 135, 176, 145, 152, 165, 190, 175, 135, 159

4. Analyze the data.

Grade 7 Students Height	
Stem	Leaf
12	1,2,3,3,4,5,6,6,6,7,9
13	0,0, 4,8
14	5,9
15	1, 4,9
16	1,2,2

- What is the height of the tallest student?
- What is the range of this data?
- Which is the shortest height?
- What is the class median?

5. Give an example of data that is a collection of 3 numbers that have a range of 5, mode 5 and median 5.
6. Give an example of data that is a collection of 9 numbers that have a range of 10, mode 25 and median 21.
7. Give an example of data that is a collection of 10 numbers that have a range of 50, mode 125 and median 145.
8. Give an example of data that is a collection of 21 numbers that have a range of 100, mode 200 and median 145.
9. Give an example of data that is a collection of 31 numbers that have a range of 20, mode 5 and median 15.

- **Homework:** Complete problems 1-6 from the textbook on page 182.